CLAIMS - MARKED UP VERSION - 0Z 0050/51631

- 3. A process as defined in claim 1 [or claim 2], wherein 4-tert-butylcatechol is fed to the distillation apparatus concurrently with the vinylaromatic monomer, the concentration of 4-tert-butylcatechol in the distillation bottoms being in the range of from 200 to 15,000 ppm based on the vinylaromatic momer.
- 4. A process as defined in [any of claims 1 to 3] <u>claim 1</u>, wherein the vacuum distillation is carried out at temperatures ranging from 40° to125°C.
- 5. A process as defined in [any of claims 1 to 4] <u>claim 1</u>, wherein an oxygencontaining gas is metered into the distillation bottoms through a gas spray.
- 6. A process as defined in [any of claims 1 to 5] <u>claim 1</u>, wherein an oxygencontaining gas is meter in on the suction side of a circulating pump mounted upstream of the distillation assembly.
- 7. A process as defined in [any of claims 1 to 6] <u>claim 1</u>, wherein the oxygen is fed in at a rate of from 0.01 to 0.5 wt%, based on the weight of vinylaromatic monomer.